

Notice of Allowability

Application No.

10/780,702

Applicant(s)

LIAO ET AL.

Examiner

Prabodh M. Dharja

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07-17-2007 and fax on 07-30-2007.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

Art Unit: 2629

1. **Status:** please all the replies and correspondence should be addressed to examiner's new art unit 2629. Receipt is acknowledged of papers submitted 07-17-2007 under request for reconsideration and faxed amendments and new claims on 07-30-2007 to do examiner amendments, has been placed of record in the file. Claims 1-21 are pending in this office action.

Response to Amendment

2. Applicant has faxed on 07-30-2007 amendments to independent claims 1,9, 13 and added new dependent claims 17-21 to do examiner's amendments per extensive telephonic interview on 07-25-2007 with examiner to over come prior art rejection. The amendments and new claims faxed on 07-30-2007 do not introduce any new matter into the disclosure. The added material is supported by the original disclosure.

3. Applicant has agreed to do examiner's amendments per examiner's extensive interview with applicant's representative on 07-25-2007 to overcome prior art rejection. Applicant's arguments, see Remark, filed 07-17-2007, with respect to Claims 1, regarding "a transparent light guiding plate disposed on a surface of the LCD display panel, wherein the transparent light guide layer has a width and length dimension substantially similar to the LCD display panel; at least one light source disposed at one side edge of the light guiding plate; and wherein the light guiding plate is configured to have encoded information therein; and a transceiver for detecting light and the encoded information that are outputted from the light guiding layer" are persuasive; and with the examiner amendments after further extensive search in PG PUB, prior art and

Art Unit: 2629

consideration does overcome prior art rejection and cited prior arts; which puts the application number 10780702 in condition for allowance.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a personal telephone interview with applicant's representative Linda Saltiel on 07-30-2007.

The application has been amended as follows:

In the Claims

Claim1 amended as following.

Claim 1 (amended) A position encoded sensing device comprising:

[[a]] **an LCD** display panel;

a light guiding layer disposed on the display panel, wherein the light guiding layer includes:

a **transparent** light guiding plate, **disposed on a surface of the LCD display panel,**

wherein the transparent light guide layer has a width and length dimension substantially similar to the LCD display panel;

at least one light source disposed at one side edge of the light guiding plate; and

wherein the light guiding plate is configured to have encoded information therein;

and

a transceiver for detecting light and the encoded information that are outputted from the light guiding layer.

Claim 9 amended as following.

Claim 9 (amended) A method of sensing a position on a display, said method comprising the steps of:

displaying information on **an LCD** display panel;

positioning a transceiver proximately to the display panel;

emitting light from at least one light source disposed at a side edge of a light guiding layer;

guiding the light with encoded information out of **a transparent** light guiding layer,

wherein the transparent light guiding layer is disposed on a surface of the LCD display panel;

detecting the light and the encoded information outputted from the light guiding layer at the transceiver; and

processing the encoded information detected by the transceiver.

Claim13 amended as following.

Claim 13 (amended) A system for sensing a position on a display comprising:

a display means for displaying information on **[[a]] an LCD** display panel;

a positioning means for positioning a transceiver proximately to the display panel;

an emitting means for emitting light from at least one light source disposed at a side edge of **a transparent** light guiding layer; **wherein the transparent light guiding layer is disposed on a surface of the LCD display panel;**

a light guiding means for guiding the light with encoded information out of light guiding layer;

a detecting means for detecting the light and the encoded information guided out of the light guiding layer at the transceiver; and

a processing means for processing the encoded information detected by the transceiver.

Please add new dependent claims 17-21 as following.

Claim 17 (new) The system for sensing a position on a display according to claim 1, wherein the LCD display panel is rectangular.

Claim 18 (new) The system for sensing a position on a display according to claim 9, wherein the LCD display panel is rectangular.

Claim 19 (new) The system for sensing a position on a display according to claim 18, wherein the transparent light guide layer has a width and length dimension substantially similar to the LCD display panel.

Claim 20 (new) The system for sensing a position on a display according to claim 13, wherein the LCD display panel is rectangular.

Claim 21 (new) The system for sensing a position on a display according to claim 20, wherein the transparent light guide layer has a width and length dimension substantially similar to the LCD display panel.

Allowable Subject Matter

5. Claims 1-21 are allowed.

6. The following is an examiner's statement of reasons for allowance:

The applicant has agreed to do examiner's amendments per examiner's extensive interview with applicant's representative on 07-25-2007 to overcome prior art rejection. Applicant's arguments, filed on 07-16-2007 are convincing. As argued by applicant in remarks under claim rejection page 2, last paragraph, and page 3, the prior art of Ditzik (US 5,966,108) in view of Wang et al. (US 2004/0140964 A1) and Kurosowa et al. (US 6,716,575 B1) and all the cited prior arts fails to recite or disclose the uniquely distinct features of the independent claims limitations below with combination of all other limitations of independent claims recited:

a transparent light guiding plate disposed on a surface of the LCD display panel, wherein the transparent light guide layer has a width and length dimension substantially similar to the LCD display panel; at least one light source disposed at one side edge of the light guiding plate; and wherein the light guiding plate is configured to have encoded information therein; and a transceiver for detecting light and the encoded information that are outputted from the light guiding layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668.

The examiner can normally be reached on M-F 8AM to 5PM.

8. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR


Art Unit: 2629

system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231


/PRABODH DHARIA/

Prabodh Dharia

AU2629

Full Signatory Authority Program

07-30-2007